Sheet 1 of 6 FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE ATTY. DOCKET NO. APPLICATION NO. PATENT AND TRACEMARK EFFICE 120115.401C2 10/625,972 APPLICANTS nformation disclosure statement Phillip I. Tarr et al. JUL 1 9 2004 (Use several sheets if necessary) FILING DATE GROUP ART UNIT July 23, 2003 1645 U.S.PATIENT DOCUMENTS EXAMINER DOCUMENT NUMBER DATE FILING DATE INITIAL NAME CLASS SUBCLASS IF APPROPRIATE 3,975,517 08/17/76 Wilson 424 87 4,443,549 AB 04/17/84 Sadowski 436 548 AC 4,454,116 06/12/84 Brinton 424 92 4,472,302 AD 09/18/84 Karkhanis 260 112 R ΑE 4,652,448 03/24/87 Sadowski 424 87 4,702,911 10/27/87 ΑF McMichael 424 92 AG 4,725,435 02/16/88 Brinton, Jr. et al. 424 92 4,736,017 04/05/88 ΑH O'Hanley et al. 530 350 ΑJ 4,795,803 01/03/89 Lindberg et al. 530 324 5,066,596 ΑJ 11/19/91 Manning et al. 435 252.33 FOREIGN PATENT DOCUMENTS DOCUMENT DATE . TRANSLATION NUMBER COUNTRY YES NO SD WO 92/11354 ΑK 07/09/92 WIPO 50 WO 94/19482 ΑL 09/01/94 WIPO OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.) Acres, S. et al., "Immunization of Calves Against Enterotoxigenic Colibacillosis by AM Vaccinating Dams with Purified K99 Antigen and Whole Cell Bacterins," Infect Immun. 25(1):121-6, July 1979. Beebakhee, G. et al., "Cloning and Nucleotide Sequence of the eae Gene Homologue from ΑN Enterohemorrhagic Escherichia Coli Serotype 0157:H7," FEMS Microbiol. Lett. 91:63-68, 1992. Bilge, S. et al., "Molecular Characterization of a Fimbrial Adhesin, F1845, Mediating ΑO SD Diffuse Adherence of Diarrhea-associated Escherichia coli to HEp-2 cells.," J Bacteriol.

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

171(8):4281-9, August 1989.

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| 43P | BA | 5,0 | 079,165 | 01/07/92 | Clements | et al. 435 | | 252.8 | | |
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| | вс | 5,1 | 182,109 | 10/26/93 | Tamura et | t al. | 424 | 92 | | · |
| | BD | 5,2 | 208,024 | 05/04/93 | Van Den | Bosch | 424 | 92 | | |
| | BE | 5,2 | 286,484 | 02/15/94 | Rodriguez | z et al. | 435 | 252.33 | | |
| | BF | 5,4 | 475,098 | 12/12/95 | Hall et al. | | 536 | 23.7 | | |
| | BG | 5,7 | 776,751 | 07/07/98 | Boulton e | t al. | 435 | 194 | | |
| / | ВН | 5,8 | 334,187 | 11/10/98 | Green et a | 1. | 435 | 6 | | |
| 30 | ы 5,840,518 | | 11/24/98 | Morishita et al. | | 435 | 69.1 | | | |
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| 50 | вк | | | | | producing Escherichia | | | ren: a | |
| | | | | | | zy 105(6):1724-31, De Escherichia coli HEp- | | | with T | vne |
| | BL | | | | | 37(8736):262-4, Febr | | | widi i | ype |
| | ВМ | | | | | genic Escherichia col | | | 0):39 | 53-61, |
| | | | October 1992 | 2. | <u> </u> | | | | | |
| | BN | | - | | | the eae Gene of Ente | | | | coli in |
| | | | 1 | | itro and in | a Porcine Model," J | Clin Inv | est. 92(3):1418 | 3-24, | |
| | - | - | September 19 | | "Paccive | Protection of Sucklin | o Infant | Mice Against | F41- | |
| Sh | ВО | | | | | a coli Strains by Intra | | | | ıms |
| // | | | • | _ | | t F41," Infect Immun. | | | | |
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| (7) | сс | | - | | nants of Verotoxin-proc | | | oli O157:H7 | | | |
| 72 | | Attachment- | Attachment-effacement," Infect Immun. 61(8):3382-91, August 1993. | | | | | | | | |
| | CD | Evans, G. et | Evans, G. et al., "High Efficiency Vectors for Cosmid Microcloning and Genomic Analysis," Gene 79(1):9-20, June 30, 1989. | | | | | | | | |
| | | Analysis," G | | | | | | | | | |
| | CE | Francis, D. e | t al., "Evalua | ation of a L | ive Avirulent Escheric | hia coli | Vaccine for | K88+, LT+ | | | |
| | | Enterotoxige | Enterotoxigenic Colibacillosis in Weaned Pigs," Am J Vet Res. 52(7):1051-5, July 1991. | | | | | | | | |
| | CF | Fratamico, P. | Fratamico, P. et al., "Studies on Escherichia coli Serotype O157:H7 Strains Containing a | | | | | | | | |
| | } | 60-MDa Plas | mid and on | 60-MDa Pl | lasmid-cured Derivative | es," <i>J N</i> | 1ed Microbio | <i>l. 39</i> (5):371- | | | |
| | | 81, Novembe | 81, November 1993. | | | | | | | | |
| | CG | Griffin, P. et | al., "Illnesse | s Associat | ed with <i>Escherichia co</i> | li 0157 | :H7 Infection | s. A Broad | | | |
| | | Clinical Spec | trum," Ann | Intern Mea | l. 109(9):705-12, Nove | mber 1, | 198. | | | | |
| | СН | Ikemori, Y. e | t al., "Protec | tion of Ne | onatal Calves Against I | Fatal Er | nteric Colibac | illosis by | | | |
| | | Administration | on of Egg Y | olk Powder | r from Hens Immunized | l with k | (99-piliated | | | | |
| 1 | } | Enterotoxige | nic <i>Escheric</i> | hia coli," A | 4m J Vet Res. 53(11):20 | 05-8, 1 | November 19 | 92. | | | |
| | CI | | Isaacson, R. et al., "Immunization of Suckling Pigs Against Enterotoxigenic Escherichia | | | | | | | | |
| | | 1 | coli-induced Diarrheal Disease by Vaccinating Dams with Purified K99 or 987P Pili: | | | | | | | | |
| | | Antibody Pro | Antibody Production in Response to Vaccination," Infect Immun. 29(2):824-6, August 1980. | | | | | | | | |
| | 21 | | | | dherence Properties of | | | | | | |
| | C1 | | • | | ative," Curr. Microbio | | | | | | |
| V | ск | | | | rohemorrhagic Escheri | | | Required | | | |
| $\leq \sqrt{\chi}$ | CK | | * | | ntigen and for Adhesio | | | | | | |
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| 5 | DC | Kimura, A. et al., "B | ordetella Pertus | sis Filamentous Hemag | gelutinin: 1 | Evaluation | 25.0 | |
| Y | | Protective Antigen ar | d Colonization | Factor in a Mouse Res | eniratory I | faction M. | шэ д - d -1 22 | T C |
| | 1 | Immun. 58(1):7-16, J | anuary 1990. | a wood at a mouse Res | phatory H | nection ivid | odei," | Injeci |
| | DD | Louie, M. et al., "Exp | ression and Ch | aracterization of the ea | a A C | D 1 | | |
| | | Escherichia coli Sero | type O157·H7 | Infect Immun. 61(10): | 4095 02 | Product of | | |
| - } | DE | Moon, H. et al., "Med | chanisms of Ass | ociation of Enteropath | 4083-92, (| October 19 | 93. | |
| | | Intestinal Epithelium, | " Am J Clin Nu | tr. 32(1):119-27, Janua | ogenic <i>Esc</i> ry 1970 | cherichia c | oli wit | h |
| | DF | Morgan, R. et al., "Im | munization of S | Suckling Pigs Against I | Enterotovi | gania Fast | | |
| - | | coli-induced Diarrhea | Disease by Va | ccinating Dame with P | urified 00' | Sciffe Erch | ericnia ::: | 7 |
| 1 | | Protection Correlates | with Pilus Hom | ology of Vaccine and C | Thellenes | OT KAA P | u1: | |
| | | 22(3):771-7, December | er 1978. | orogy of vaccine and (| Juanenge, | Infect Imi | nun. | |
| 1 | DG | Morris, J. et al., "Passi | ve Protection o | flamba Against Eur | | · · · · | | |
| | | Role of Antibodies in | Serum and Cale | a lamos Against Entero | pathogeni | c. <i>Escheric</i> i | hia coi | !i: |
| | | Role of Antibodies in Microbiol. 13(2):265-7 | 71 May 1020 | strum of Dams Vaccir | nated with | K99 Antig | en," J | Med |
| | DH | Pecha, B. et al. "Gal-G | al Pili Vaccines | Prevent Puolonanhiisi | - 1 P'11 | | | |
| | 1 | a Murine Model. Singl | e-component G | al-Gal Pili Vassima- D | o by Piliat | ed <i>Escheri</i> d | chia co |)li in |
| | | Homologous and Heter | ologous pilists | d E and the vaccines Pi | event Pye | Ionephritis | by | |
| 1 | | Homologous and Heter 1989. | orogons himatet | u v. con Strains," J Cli | in Invest, 8 | ?3(6):2102- | 8, Jun | e |
| | DI | Ratnam, S. et al., "Char | racterization of | Escherichia coli Sarat | me O157 | 117 " 101 | | |
| 4-1 | | 141CF ODIOL 20(10):2006 | -12, October 19 | 988. | | | | |
| 5 | DJ | Runnels, P. et al., "F41 | Pili as Protectiv | ve Antigens of Enterote | oxigenic E | schariahia | col: +1 | |
| / | | Produce F41, K99, or B | oth Pilus Antig | ens," Infect Immun 55 | (3)·555_2 | March 100 | 2011 (f 27 | iat |
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| 50 | EC | Sherman, P. | et al., "Oute | r Membran | es are Competitive Inh | ibitors of | Escherichie | a coli | | | |
| LÝ. | | | | | ells," Infect Immun. 59 | | | | | | |
| | ED | | Sherman, P. et al., "Adherence of Vero Cytotoxin-producing Escherichia coli of Serotype | | | | | | | | |
| | | | O157:H7 to Human Epithelial Cells in Tissue Culture: Role of Outer Membranes as | | | | | | | | |
| | | | Bacterial Adhesions," <i>J Med Microbiol.</i> 26(1):11-7, May 1988. Sherman, P. et al., "Attaching and Effacing Adherence of Vero Cytotoxin-producing | | | | | | | | |
| | EE | | | | Epithelium in Vivo," | | | | , April | | |
| | | 1988. | , | | | <i>y</i> | | | | | |
| | EF | Sojka, W. et | al., "Passive | Protection | of Lambs Against Exp | erimenta | l Enteric Co | olibaci | llosis | | |
| | ~. | by Colostral | Transfer of | Antibodies | from K99-vaccinated I | Ewes," JI | Med Microl | oiol. | } | | |
| | | | 11(4):493-9, November 1978. | | | | | | | | |
| | EG | | | | ence of the Hemolytic- | | | | | | |
| | | _ | _ | | nce for Ascertainment | Bias," An | n J Epidemi | Ol | | | |
| | | 129(3):582-6 | | | in Dathogenia Escheric | rhia coli (| 7157·H7 Ic | olated | from | | |
| | EH | | Tarr, P. et al., "Genotypic Variation in Pathogenic Escherichia coli O157:H7 Isolated from Patients in Washington, 1984-1987," J Infect Dis. 159(2):344-7, February 1989. | | | | | | | | |
| | - | | | | 57:H7 and the Hemolyt | | | | rtance | | |
| | EI | | | | Etiology," J Infect Dis | | | | | | |
| | EJ | | | | Vectors for Delivery of | | | | | | |
| | <u> </u> | Analysis of S | Analysis of Secreted Virulence Determinants of Vibrio Cholerae," J Bacteriol. 171(4):1870- | | | | | | | | |
| | | 8, April 1989 | | , | · | | | | | | |
| 7 | EK | | | | Fusions to Identify a l | | | | , ,,,, | | |
| 5) | | Coordinately 1987. | Regulated v | with Choles | a Toxin," Proc Natl Ac | ad Sci U | SA. 84(9): | 2833-1 | , May | | |
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